Project Design Phase-II Solution Requirements (Functional & Non-functional)

Date	17 October 2022
Team ID	PNT2022TMID35555
Project Name	Project - Inventory Management System for
	Retailers
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registering through a form
		Registering through mail
FR-2	User Confirmation	Email confirmation
		OTP confirmation
FR-3	Login	Log in to the application by entering required
		credentials (email ID and password)
FR-4	Dashboard	View the products details (Name, quantity)
FR-5	Add items to the Inventory list	Users can add items that they wish to buy to the
		inventory
FR-6	Stock Updation	Increasing the availability of a particular product

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	If the system has a steep learning curve, then it would mostly not be purchased by the company needing an inventory management system. • The UI is simple and easy to navigate • Consistent design and colours are used. • The webpages are responsive • Email delivery is to be fast
NFR-2	Security	Security refers to the safety and management of the inventory of a company such that only authorised personnel are allowed to access them. • Login system is used to provide authentication. • Users need to create account and verify it with their email OTP. • Cookie based security is user for authentication on client side.

NFR-3	Reliability	 Exception handling will be done at the code level to ensure that the app performs well even when errors happen in the runtime Multiple instances of the App would be online to ensure continued operation
NFR-4	Performance	Performance of an inventory management system depends on the efficiency with which various tasks in it can be executed. • Reduces manpower, cost and saves time. Emails will be sent automatically when stocks are not available. • Makes the business process more efficient. • Improves organizations performance. • It will be perform fast and secure even at the lower bandwidth
NFR-5	Availability	The use of IBM DB2 ensures high availability
NFR-6	Scalability	 The scalability of an inventory management system refers to the extensibility of its operations. DB2 is highly Scalable The code is developed efficiently to easily add new features without many changes by reusing the code. Docker in IBM Container registry is used which is highly scalable